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Barrow, J

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		PCT/EI	P2004/007915
A CLASSI IPC 7	FICATION OF SUBJECT MATTER B21J15/12 B21J15/04 B21C37	7/29	
	o international Patent Classification (IPC) or to both national class SEARCHED	sification and IPC	
Minimum do IPC 7	ocumentation searched (classification system followed by classifi B21J B21C F16B	cation symbols)	
Documental	ion searched other than minimum documentation to the extent the	at such documents are included in the	fields searched
	ata base consulted during the International search (name of data ternal, PAJ	a base and, where practical, search term	ns used)
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		
Category *	Chatton of document, with indication, where appropriate, of the	e relevant passages	Relevant to claim No.
X Y	US 5 915 901 A (AASGAARD A L PE 29 June 1999 (1999-06-29) column 8, line 20 - line 30; f	,	1-6, 8-10,19 7,11-18
Υ .	GB 2 107 626 A (DRABUS BV) 5 May 1983 (1983-05-05) page 2, line 15 - line 28; cla figures	im 1;	7,11, 14-18
Υ	US 4 428 214 A (BREDESKY JR LOU AL) 31 January 1984 (1984-01-33 column 4, line 4 - line 25; fig	1)	12,13
А	DE 17 50 560 A (HOLTKAMP GERHAN HUELSMANN WERNER) 25 March 1971 (1971-03-25) page 3, paragraph 2 - paragraph 	1,10	
X Furti	her documents are listed in the continuation of box C.	X Patent family members are	listed in annex.
"A" docume consider a filling of "L" docume which citation other a filling of the consider a filling of the citation of the ci	ent defining the general state of the art which is not lered to be of particular relevance socument but published on or after the international least which may throw doubts on priority claim(s) or is clied to establish the publication date of another no rother special reason (as specified) sant referring to an oral disclosure, use, exhibition or means and published prior to the international filling date but hand the priority date claimed.	"Y" document of particular relevance	lict with the application but one or theory underlying the set theory underlying the cannot be considered to a the document is taken atone set the claimed invention as an inventive step when the set or more other such docu-

Form PCT/ISA/210 (second sheet) (January 2004)

Name and mailing address of the ISA

Date of the actual completion of the International search

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INTERNATIONAL SEARCH REPORT

Internation No
PCT/EP2004/007915

		PCT/EP2004/007915
	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 559 445 A (HOUGEN EVERETT D) 2 February 1971 (1971-02-02) column 2, line 64 - column 3, line 12; figures	1~15
A	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 08, 6 October 2000 (2000-10-06) & JP 2000 141066 A (UNIPRES CORP; NIPPON LIGHT METAL CO LTD), 23 May 2000 (2000-05-23) abstract; figures 5d,5f	1-9,12, 13,16-19
A	US 2002/125297 A1 (THREADGILL PHILIP L ET AL) 12 September 2002 (2002-09-12) claim 1	1-6,11, 12
	•	
	-	

INTERNATIONAL SEARCH REPORT

Internal Application No PCT/EP2004/007915

				1017211	10172120017007310	
Patent document cited in search report		Publication date		Patent family member(s)	Publication date	
US 5915901	A	29-06-1999	US US	5762456 A 5741099 A	09-06-1998 21-04-1998	
GB 2107626	A	05-05-1983	NL DE FR JP JP JP	8104774 A 3238978 A1 2514676 A1 1607888 C 2032053 B 58084634 A	16-05-1983 05-05-1983 22-04-1983 13-06-1991 18-07-1990 20-05-1983	
US 4428214	A	31-01-1984	AU AU BR CA DE DK EP ES ES FI JP ZA	548871 B2 1038383 A 8300550 A 1196217 A1 3364569 D1 52183 A 0085888 A2 8403053 A1 8404213 A1 830395 A 58145324 A 8300792 A	02-01-1986 18-08-1983 08-11-1983 05-11-1985 28-08-1986 09-08-1983 17-08-1983 01-06-1984 16-07-1984 09-08-1983 30-08-1983 26-09-1984	
DE 1750560	Α	25-03-1971	DE	1750560 A1	25-03-1971	
US 3559445	Α	02-02-1971	NONE			
JP 2000141066	Α	23-05-2000	NONE			
US 2002125297	A1	12-09-2002	WO	02062518 A1	15-08-2002	